

ADS 95 RANGER

Training & Lessons Learned

EURO UVS, Paris, June 14, 2002

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Report Documentation Page

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Agenda



- Prerequisites
- Types of Operators
- Training and Formation
- Mission Simulator
 - Technical Aspects
 - Training Aspects
- Experience / Lessons Learned
- Questions

Prerequisites



Two governing documents

- MFV defines ,overhead' directives of personnel involved in flight operations
- MFV = <u>Militärflugdienstverordnung</u> = Military Flight Service Regulation
- VDO defines directives of personnel involved in ADS
 95 operations
- VDO = <u>Verordnung für Drohnenoperateure</u> = UAV Operator Regulation

Prerequisites



Flight duty regulations:

- Maximum no-flight/sim time 6 weeks (calendar time)
- Minimum 45 flight hours p.a., of which max. 50% in the MISIM

Military regulations:

- 25 Service days
- 17 Days in Training Courses
- 8 Days individual training

Types of Operators



Internal Pilots:

The Internal Pilot is responsible for the conduction of the flight from Take-Off to Landing.

Payload Operators:

The Payload Operator operates the TV- or Infrared Camera from Take-Off to Approach. His support is required for the Approach and Landing Phase.

Training & Formation



Requirements for professional operators

Internal Pilots:

Observers:

CPL I FR-Licence

PPL-Licence

Initial Training Course, Duration:

Total 2-3 months

2 weeks theory including first MISIM-Exercises

6-10 weeks flight training/MISIM

Total 7 to 10 flights and

7 to 10 MISIM-missions

before first Solo-Flight

Total 15 flights and

5 MI SI M-missions

before first Solo-Flight

Graduation to Drone Operator after ~60 hrs of real flight time.

Training & Formation



Requirements for militia operators

Internal Pilots:

ATPL-Licence 150 of ,Service-Days' left Observers:

PPL-Licence

150 of ,Service-Days' left

Intelligence Officer

Initial Training Course, Duration:

Total 6 weeks

2 weeks theory including first MISIM-Exercises

4 weeks flight training/MISIM

Total 7 to 10 flights and

7 to 10 MISIM-missions

before first Solo-Flight

Total 15 flights and

5 MI SI M-missions

before first Solo-Flight

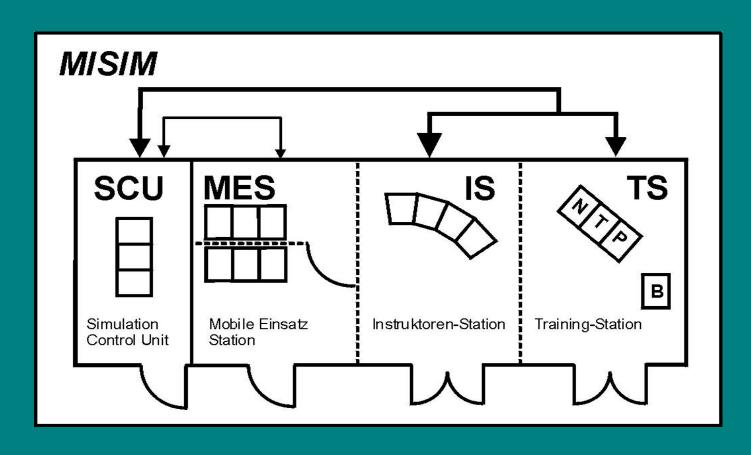
Graduation to Drone Operator after ~60 hrs of real flight time.



Purpose

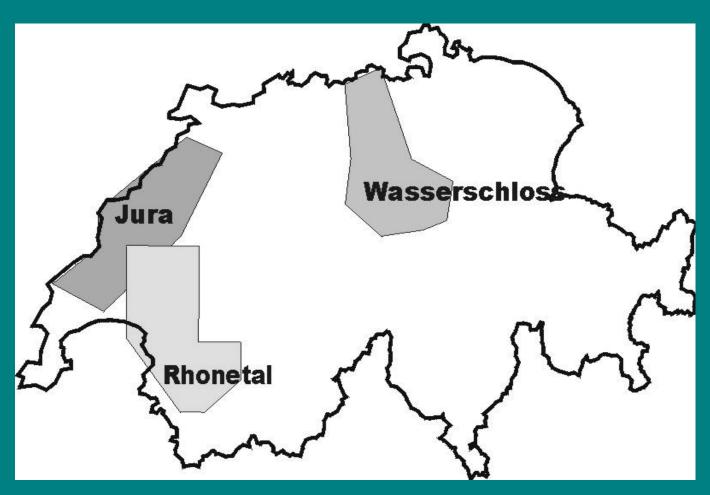
- Essential tool for the formation/training of both professional and militia operators at all levels (initial training upwards)
- All crew stations and crew functions can be trained and exercised:
 - Internal Pilot
 - Payload operator
 - MRU-operator
 - UAV intelligence officer
 - Artillery fire control officer
 - other (i.e. fire fighter operations officer etc.)





General Layout





Database





Instructor Station





Trainee Station

Questions?







